

#### ABSTRACT OF THE DISCLOSURE

A ferrule for use in optical fiber connections has an optical fiber containing a bore extending therethrough. Within the bore is a member of shaped memory alloy (SMA) which clamps and affixes the fiber firmly in place within the ferrule without the necessity of cementing the fiber in place. The shaped memory alloy has two states: the initial or primary state and the secondary or deformed state. In the embodiments of the invention, the member is deformed from the initial state to the secondary state and the fiber is inserted in the ferrule. The member is then returned to the primary state in which it firmly clamps the fiber within the ferrule.